

# DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 2 • EXISTING CONDITIONS

## 02 61 00 • CONTAMINATED SITE MATERIAL REMOVAL

### SECTION INCLUDES

Contaminated Soil Removal

### RELATED SECTIONS

02 40 50    Underground Tank Removal  
31 00 00    Earthwork

### REFERENCE

**310 CMR 40.0000 Massachusetts Contingency Plan**

### INVESTIGATION

Preparation including digging test pits and test borings, research about previous uses of property can minimize the need or help control the costs of contaminated soil removal work. The discovery of contaminated soils can result in large change orders and be very disruptive to a construction contract. If contamination or evidence of a release is found, notify the Department of Environmental Protection (DEP) Regional Office that has jurisdiction over the area to determine notification protocols and obtain a Release Tracking Number (RTN), the local Fire Department, and the Board of Health.

Costly delay claims may also occur when the extent of contaminated soil is not clearly reflected in the plans and specs. The appropriate Department of Environmental Protection Regional Office should be contacted for any and all information regarding hazardous material releases on and adjacent to the property.

Plans and specifications should be prepared in accordance with all local regulations as well as conformance to **310 CMR 40.0000**, the Massachusetts Contingency Plan, current edition. The plans should include a narrative addressing any contamination found during the investigation and the final disposition of the soon to be removed material. If contamination is found during construction, the narrative should be amended and included in the close out documentation and as-built documents.

When in doubt investigate, test and document conditions. A Licensed Site Professional (LSP) should be retained by the Local Housing Authority, if not already on staff, to handle all Bills of Lading, Chain of Custody records, etc.

Contact DIG SAFE prior to any investigation and ensure all parties have the proper DIGSAFE documentation and numbers.

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### EXECUTION

The Contractor must comply with all federal, state, and local regulations regarding contaminated soils removal.

Prior to the start of work, soil sampling and analysis from within the excavated areas shall be conducted for precharacterization. The precharacterization program will be conducted to establish the method of soil recycling, reuse and/or disposal. The work may require dewatering to allow for excavation of contaminated soil in dry conditions. The Contractor shall be solely responsible for dewatering and the management of groundwater, including contaminated groundwater, if encountered.

Test results for all analytical samples, required for soil pre-characterization for receiving facility acceptance, shall be submitted to the LSP/Engineer. The results shall include all laboratory analytical certificates and Chain-of-Custody documents.

The Contractor shall prepare a site-specific Health and Safety Plan. The Plan shall outline procedures for the handling and off-site disposal of petroleum impacted soil, worker protection protocol, and equipment and vehicle decontamination. The Plan shall be submitted to the LSP within 7 days of Notice to Proceed. The Contractor shall be responsible for preparing all hazardous material manifests and/or bills of lading with all applicable analytical backup, notification, and control forms. The Contractor shall submit these to the LSP for review. The LSP will incorporate these results into a report to the DEP.

The work shall include the direct loading of contaminated soil for hauling off-site to an approved receiving facility.

The Owner will be the Generator/Responsible Party and, in conjunction with the LSP, will sign all manifests and/or bills of lading.

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### EXCAVATION OF CONTAMINATED MATERIAL

Work and decontamination procedures in areas containing contaminated material shall be performed in accordance with standard engineering practices. Contractor shall employ methods necessary to isolate contaminated soils from noncontaminated soils. The excavation may include removing additional soils found to contain residual contamination as directed by the LSP.

The Contractor shall direct load contaminated soil into roll-off containers or trucks for transportation and disposal off-site.

The Contractor shall be responsible for obtaining approvals for final disposal of contaminated material.

The Contractor shall be required to submit a copy of all analytical results to the LSP within 5 days of receipt of the laboratory report. Analytical data shall be kept confidential, and distributed to the LSP and Owner only. LSPs review of data will be within 5 days. Sampling of contaminated soil shall be done at sufficient and adequately distributed locations so that the concentrations of the chemical constituents attributable to the petroleum release and any other contaminants of concern, which may be present, are adequately characterized. The LSP shall be present to observe sample collection activities.

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### SOIL RECYCLING, REUSE, OR DISPOSAL

The soil recycling facility shall be fully permitted in accordance with all applicable local, state and federal regulations and shall be a hot mix asphalt plant, thermal processing plant, cold mix emulsion plant, or an approved landfill. The facility shall be eligible to accept petroleum contaminated soil without direct MassDEP approval provided that levels of contaminants in the soil comply with the specific levels established in the facility's permit. An out-of-state recycling facility shall be approved or permitted by the state in which it is located to accept petroleum contaminated soil with contaminant concentration ranges specified in its permit.

The Contractor shall submit to the LSP initial approvals or letters of intent and facility information for the recycling facility selected.

The facility information shall include the following:

1. General Information
  - a. Facility Name
  - b. Facility Address
  - c. Name of Contact Person
  - d. Title of Contact Person
  - e. Telephone Number of Contact Person.
  - f. Permit Number.
2. Written confirmation that the facility is permitted to accept and will accept the classified soil of the general quality and quantity expected at the site.
3. A listing of all current and valid facility permits, licenses, letters of approval, and other authorizations to operate, pertaining to the receipt and management of the soils or materials specified in the Contract.

The Contractor shall submit a complete list of the disposal facility's permitted allowable contaminant levels and physical characteristic requirements for contaminated material, and list any required regulatory approvals for individual waste streams.

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### WASTE PROFILES AND MANIFESTS

The Contractor shall be responsible for preparing and submitting to the LSP for review all waste profile applications and questionnaires, and coordination with disposal facilities and all Federal and State environmental agencies.

The Contractor shall be responsible for preparing all hazardous material manifests and/or bills of lading with all applicable analytical backup, notification, and control forms. The Contractor shall submit these to the LSP for review at least 5 business days before transport. The LHA will sign bills of lading in conjunction with the LSP.

The Contractor shall be required to provide a written log for the transport of each load from the site, including tractor/trailer registrations, time of departure, time of arrival at the receiving facility and signature of vehicle operator.

The Contractor shall also provide certified tare and gross weight slips for each load received at the designated disposal facility which shall be attached to each returned manifest and/or bill of lading.

The LHA will be designated as generator and will sign all manifests and waste profile application or questionnaires in conjunction with the LSP.

The Contractor shall furnish all generator copies of the hazardous material manifest to the Engineer for submittal to the appropriate State environmental agencies and to retain for the LHA's records.

The Contractor shall submit to the LSP, NO LATER THAN 10 BUSINESS DAYS and prior to receiving progress payment, ALL ORIGINAL DOCUMENTATION as required certifying that all materials were transported to, accepted, and disposed of, at the selected disposal facility.

The documentation shall include the following, as a minimum:

1. Documentation shall be provided for each load from the site to the disposal facility, including all manifests and any other transfer documentation as applicable.
2. All documentation for each load shall be tracked by the original manifest
3. If that material is transported under a Massachusetts Bureau of Waste Site Cleanup transmittal form (BWSC Form 113, parts A, B, and C), all original forms must be returned with ORIGINAL SIGNATURES, including the final signature of the receiving facility verifying receipt, no later than 10 business days from completion of transporting soil.